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Legacy report on the 1997 Uniform Building Code™

DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07240—Exterior Insulation and Finish Systems

AKROFLEX EXTERIOR INSULATION AND FINISH SYSTEMS

OMEGA PRODUCTS INTERNATIONAL, INC.
1681 CALIFORNIA AVENUE
CORONA, CALIFORNIA 92881

1.0 SUBJECT

Akroflex Exterior Insulation and Finish Systems.

2.0 DESCRIPTION

2.1 General:

2.1.1 Akroflex Exterior Insulation and Finish Systems:

The Akroflex exterior insulation and finish systems are exterior wall coverings that are adhesively or mechanically attached to substrates of exterior walls of concrete or concrete masonry, or water-resistant core gypsum sheathing, Dens-Glass™ Gold board, Durock fiber cement board, exterior grade plywood or Exposure 1 grade oriented strand board (OSB) over steel or wood studs. Sections 2.1.2 and 2.1.3 describe the two basic systems.

2.1.2 EIFS Without Drainage Provisions: The exterior insulation and finish system (EIFS) is adhered to vertical substrates of concrete masonry; concrete; or OSB, plywood, or water-resistant core gypsum sheathing over steel or wood framing. See Section 2.3.1. The system may also be installed with the insulation board mechanically attached to concrete and masonry substrates in accordance with Section 2.3.3. A weather-resistive barrier may be included for installations of the system mechanically attached to concrete and masonry substrates. The system components are an adhesive/base coat, expanded polystyrene insulation board, reinforcing fabric, primer and a finish coat. The EIFS without drainage provisions is not permitted to be installed on framed walls of structures of Type V, Group R, Division 1 or 3, Occupancies under the 1997 Uniform Building Code™ (UBC). The system is permitted on walls required to be of noncombustible construction when installed in accordance with Section 2.4.

2.1.3 EIFS With Drainage Provisions: The EIFS with provisions for water drainage is a mechanically attached system installed over vertical substrates of plywood, OSB, Dens-Glass Gold, gypsum sheathing or Durock cement board over steel or wood framing in accordance with Section 2.3.2. The system components are a weather-resistive barrier, corrugated expanded polystyrene (EPS) foam plastic

insulation, reinforcing fabric, base coat, a finish coat and a weep screed starter track. This system is limited to installation in Type V construction including Group R, Division 1 and Division 3, Occupancies under the UBC.

The weather-resistive barrier is as described in Section 2.2.6. The weep screed starter track is as described in Section 2.2.7.

2.2 Materials:

2.2.1 Adhesive and Base Coat Mixes: The adhesive mixes adhere the insulation board to the substrate. The base coat mixes are used as the base coat for the systems. The mixes and their uses are described as follows:

2.2.1.1 Styro-Glue: Styro-Glue is an acrylic-based liquid product to which Type I-II low alkali portland cement, complying with ASTM C 150, is added at the jobsite, in the ratio of one part Styro-Glue to one part cement by volume. The mixture is used both as an adhesive and a base coat. Styro-Glue is supplied in 5-gallon (18.9 L) containers and has a one-year shelf life when stored in a cool, dry location.

2.2.1.2 Styro-Glue Dry Bond: Styro-Glue Dry Bond is a prepackaged dry mixture of portland cement complying with ASTM C 150, sand and powdered acrylic admixture. Approximately 1 gallon (3.8 L) of water is added to each sack to achieve the desired consistency. The mixture is used both as an adhesive and a base coat. The mix is supplied in 50-pound (22.7 kg) paper sacks and has a one-year shelf life when stored in a cool, dry location.

2.2.1.3 Styro-Bond: Styro-Bond is an acrylic, noncementitious, liquid adhesive that can be used directly from the container for the adhesive attachment of insulation board to OSB and plywood substrates. Supplied in 5-gallon (18.9 L) containers, Styro-Bond has a shelf life of one year when stored in a cool, dry location.

2.2.1.4 Styro-Glue TF is an acrylic, noncementitious, liquid base coat, for the placement of glass fiber webbing as a reinforced basecoat, that is used directly from the container. Supplied in 5-gallon (18.9 L) containers, this product has a shelf life of one year when stored in a cool, dry location.

2.2.2 Insulation Board:

2.2.2.1 EIFS Without Drainage Provisions:

2.2.2.1.1 Adhesively Attached Systems: The insulation board for adhesively attached systems described in Sections 2.1.2 and 2.3.1 must be flat-faced, square edge, Type I EPS board complying with ASTM C 578, with a nominal density of 1 pound per cubic foot (16 kg/m³), a flame-spread rating of 25

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or less and a smoke-developed rating not exceeding 450. The board thicknesses range from 1 to 4 inches (25.4 to 102 mm). Acceptable EPS insulation boards are:

- AFM Corporation Type I WSG (NER-551).
- Falcon Foam, A Division of Atlas Roofing, Type I EWG (ER-4059).
- Premier Industries, Inc./dba Insulfoam, Insulfoam EIFS Grade (IEG) (ER-3414).

2.2.2.1.2 Mechanically Attached System: The insulation board used in systems mechanically fastened to concrete and masonry substrates in accordance with Section 2.3.3 must be EPS boards as described in Section 2.2.2.1.1, except the board thickness range is $\frac{3}{4}$ inch (19.1 mm) to $1\frac{1}{2}$ inches (38 mm).

2.2.2.2 EIFS With Drainage Provisions: The insulation board used in EIFS with drainage, described in Sections 2.1.3 and 2.3.2, must be EPS boards as described in Section 2.2.2.1.1, with the additional requirement that the boards have a nominal thickness of $1\frac{1}{2}$ inches (38 mm) and $\frac{3}{8}$ -inch-deep (9.5 mm) corrugations spaced 1 inch (25.4 mm) on center on the back side of the board in accordance with Figure 3.

2.2.3 Reinforcing Fabric: The reinforcing fabric is ULTRAFLEX, style 1350, manufactured by JPS Glass. The fabric is an open-weave glass fiber of twisted multi-end strands placed approximately $\frac{3}{16}$ inch (4.8 mm) on center each way and weighing approximately 4.5 ounces per square yard (153 g/m²). The fibers are treated for alkali resistance.

2.2.4 Primer: Akroflex stucco primer is a pure acrylic emulsion binder and quartz sand mix. The primer has a shelf life of one year when stored in a cool, dry location.

2.2.5 Finish Coat: Akroflex acrylic finish is a proprietary, premixed, pure-acrylic-based, textured wall coating with graded quartz aggregate. The finish coat has a shelf life of one year when stored in a cool, dry location.

2.2.6 Weather-resistive Barrier: A weather-resistive barrier is required for installation on framed construction of Type V, Group R, Division 1 and 3, Occupancies under the UBC. Two layers of Grade D kraft building paper complying with UBC Standard 14-1, or one layer of Grade D kraft building paper with a 60-minute water-resistance rating, is required. The weather-resistive barrier must be placed over the sheathing, and behind the insulation board. Application of the barrier must comply with UBC Sections 1402.1 and 2506.4. See Sections 2.1.3 and 2.3.2 for a description of the system requiring the weather-resistive barrier.

2.2.7 Weep Screed Starter Track: The weep screed starter track is the Moisture Management "332" PB Starter Casing Bead, J-shaped, vinyl plastic track manufactured by Vinyl Corp. with $2\frac{3}{4}$ -inch (70 mm) mounting flange and front and back weep holes in the bottom of the track which provide 3.53 square inches of drainage area per foot (7.47 mm²/mm) of track length.

2.2.8 Mechanical Fasteners: Wind-Devil fasteners manufactured by Wind-Lock are polypropylene, $1\frac{3}{4}$ -inch-diameter-by- $\frac{3}{4}$ -inch-deep (44.5 mm by 19.1 mm) plates with corrosion-resistant buglehead screws. Screws must be designated "S Series" for steel framing, and "W Series" for wood framing and wood-based sheathing.

Wind-Devil 2 fasteners manufactured by Wind-Lock are polypropylene, 2-inch-diameter-by- $\frac{3}{4}$ -inch-deep (51 mm by 19.1 mm) plates using the same type of screws as the Wind-Devil fasteners.

Plasti-Grip III and IV fasteners manufactured by Rodenhouse are polypropylene plastic, $1\frac{3}{4}$ -inch-diameter

(44.5 mm) plates using the same type of screws as the Wind-Devil fasteners.

2.2.9 Wood-based Sheathings: Wood-based sheathing must be exterior grade or Exposure 1 grade plywood complying with U.S. DOC Voluntary Product Standard PS-1 (UBC Standard 23-2) or Exposure 1 OSB complying with U.S. DOC Voluntary Product Standard PS-2 (UBC Standard 23-3). The sheathings must have a minimum span rating of $\frac{32}{16}$ and a minimum thickness of $\frac{15}{32}$ -inch (11.9 mm), unless noted otherwise.

2.2.10 Gypsum Sheathing: Water-resistant core regular and Type X gypsum sheathing must comply with ASTM C 79.

2.2.11 Dens-Glass Gold: G-P Gypsum Company, Dens-Glass Gold and Dens-Glass Gold Fireguard Type X are glass-fiber mat faced gypsum sheathing boards recognized in evaluation report ER-4305.

2.2.12 DUROCK Cement Board: DUROCK Cement Board is a noncombustible portland cement panel recognized in evaluation report ER-5692 having a polymer-coated, glass-fiber mesh embedded in both surfaces. Boards are produced in a nominal thickness of $\frac{1}{2}$ inch (12.7 mm), a nominal weight of 3.0 pcf (48 kg/m³) and a nominal density of 75 pcf (1201 kg/m³).

2.2.13 Sealants: The sealants must be compatible with the EIFS components and be recommended by Omega Products International, Inc. Evidence must be submitted to the building official showing that the Omega Products International-recommended sealant is a Type S or M, minimum Grade NS, minimum Class 25, and Use O sealant complying with ASTM C 920. Under the Use O classification, the sealant must be qualified for each material to which the sealant will be applied. The details for sealant installation, including the width and thickness of the sealant, must be designed by the registered design professional, designer, builder or Omega Products International, Inc., in that order, to the satisfaction of the building official.

2.3 Application:

2.3.1 EIFS Without Drainage Provisions (Adhesively Attached Systems):

2.3.1.1 General: The substrate must be structurally sound, clean, dry and free of all material that may reduce bonding of the adhesive. See Figure 1 for typical installation details.

2.3.1.2 Steel Framing: One-half-inch-thick (12.7 mm) or $\frac{5}{8}$ -inch-thick (15.9 mm) gypsum sheathing, $\frac{1}{2}$ -inch-thick Dens-Glass Gold or $\frac{5}{8}$ -inch-thick (15.9 mm) Dens-Glass Gold Fireguard Type X is applied horizontally in accordance with the applicable code to minimum No. 20 gage [minimum 0.0359 inch (0.91 mm) base metal thickness] steel studs having minimum yield and tensile strengths of 33 and 45 ksi (228 and 310 MPa), respectively. Compass International Darts Brand No. 8 flat, wafer, pancake or modified truss head screws recognized in evaluation report ER-5202 shall be used to attach the sheathing to studs at all board edges and intermediate studs. The minimum fastener length is $1\frac{1}{4}$ inches (32 mm), and the fastener must penetrate the studs at least $\frac{3}{8}$ inch (9.5 mm). Vertical edges of the sheathing must butt over studs. When studs are spaced 16 inches (406 mm) on center, $\frac{1}{2}$ -inch-thick (12.7 mm) gypsum sheathing is used with fasteners at 8 inches (203 mm) on center. When studs are spaced 24 inches (610 mm) on center, $\frac{5}{8}$ -inch-thick (15.9 mm) gypsum sheathing is used with fasteners at 6 inches (152 mm) on center. When $\frac{1}{2}$ -inch-thick (12.7 mm) Dens-Glass Gold board or $\frac{5}{8}$ -inch-thick (15.9 mm) Dens-Glass Gold Fire Stop Type X board is used, studs are spaced 16 or 24 inches (406 or 610 mm) on center, respectively, and fasteners are spaced 6 inches (152 mm) on center.

For adhering the EPS to gypsum sheathing or Dens-Glass Gold, the adhesive mix of either Styro-Glue or Styro-Glue Dry Bond is applied to the entire back surface of the EPS board with a smooth trowel, and is finished with a $\frac{3}{8}$ -by- $\frac{3}{8}$ -by- $1\frac{1}{2}$ -inch (9.5 by 9.5 by 38 mm), square-notched trowel. The board, applied in running bond, is slid into place on the sheathing, and pressure is applied over the entire surface to ensure uniform contact. All joints are tightly butted and all board irregularities exceeding $\frac{1}{16}$ inch (1.6 mm) must be eliminated. The adhesive must cure at least 24 hours before application of the base coat. The base coat is then applied to the entire exterior surface of the EPS board and is troweled to a uniform thickness of approximately $\frac{1}{16}$ inch (1.6 mm), and reinforcing fabric is embedded into the wet base coat. The fabric is troweled from the center to the edges, and must be continuous at all corners and lapped at least 2 inches (51 mm) at fabric edges.

The base coat must be dry to the touch before proceeding. The drying time required ranges from 4 to 24 hours. When the base coat is dry, Akroflex primer is sprayed or rolled over the entire surface of the dry base coat. When the primer is dry (usually between 30 and 60 minutes after application), the Akroflex finish is applied directly to the base coat. Minimum thickness of the finish coat is $\frac{1}{16}$ inch (1.6 mm).

Expansion joints are required at locations where the substrate changes, at floor lines in wood-framed construction in which lumber shrinkage will occur, where the EIFS abuts another material, and where structural movement is anticipated. Joints must be installed as specified by the architect, designer, builder or exterior coating manufacturer, in that order. An approved sealant described in Section 2.2.13 must be applied prior to application of the finish coat at system terminations, exposed joints, floor lines of wood-framed construction, changes in building shape or roof line, substrate changes, expansion joints and wall penetrations.

The system has an allowable positive and negative wind load of 36 psf (1724 Pa) for 16-inch (406 mm) stud spacings, and 31 psf (1484 Pa) for 24-inch (610 mm) stud spacings. Maximum allowable deflection of structural wall components is $\frac{1}{240}$ of the span. Studs must be designed to resist imposed loads.

2.3.1.3 Wood Studs: Gypsum sheathing or Dens-Glass Gold is applied to wood studs spaced 16 inches (406 mm) on center, maximum, and mechanically fastened using 6d common nails or No. 6 buglehead Type W screws, $1\frac{1}{2}$ inches (38 mm) long for $\frac{1}{2}$ -inch-thick (12.7 mm) sheathing and $1\frac{5}{8}$ inches (41 mm) long for $\frac{5}{8}$ -inch-thick (15.9 mm) sheathing. The maximum screw fastener spacing is 8 inches (203 mm), except when Dens-Glass Gold board is used, fastener spacing is 6 inches (152 mm) on center. Vertical board edges must butt over studs. The EPS is adhered to the gypsum sheathing or Dens-glass Gold with Styro-Glue or Styro-Glue Dry Bond. The balance of the application is as described in Section 2.3.1.2.

For installations over minimum $\frac{5}{16}$ -inch-thick (7.9 mm) exterior grade plywood or Exposure 1 grade OSB complying with the UBC, the plywood and OSB must be attached to wood studs spaced a maximum of 16 inches (406 mm) on center in accordance with Chapter 23 of the UBC. The EPS must be adhesively attached to plywood or OSB with Styro-Bond. The adhesive is applied to the entire back surface of the insulation board with a trowel having $\frac{3}{8}$ -inch-wide-by- $\frac{3}{8}$ -inch-deep U-shaped notches spaced $1\frac{1}{2}$ -inches. Before the adhesive has dried, the board is applied to the sheathing with firm pressure over the entire surface, to ensure uniform contact. The balance of the application is as described in Section 2.3.1.2.

The allowable positive and negative wind load for this system is 36 psf (1724 Pa) when the gypsum sheathing or Dens-Glass Gold is screw-fastened, and 26 psf (1245 Pa) when nails are used. Maximum allowable deflection of structural wall components is $\frac{1}{240}$ of span. Studs must be designed to resist the imposed loads.

2.3.1.4 Concrete or Concrete Masonry Substrates: EPS boards are adhered to concrete or concrete masonry surfaces with Styro-Glue or Styro-Glue Dry Bond adhesives. The adhesives shall be applied to the insulation board with a $\frac{3}{8}$ -inch-by- $\frac{3}{8}$ -inch-by- $1\frac{1}{2}$ -inch (9.5 mm by 9.5 mm by 38 mm) U-notched trowel. Prior to placement of the insulation on the wall surface, the concrete and concrete masonry must be wetted with a water spray in accordance with the manufacturer's instructions. The balance of the application is as described in Section 2.3.1.2.

The adhesively adhered system has an allowable wind pressure of 32 psf (1532 Pa).

2.3.2 EIFS With Drainage Provisions (Mechanically Attached Systems): The EIFS with drainage provisions is applied over wood-based sheathing, gypsum sheathing, Dens-Glass Gold or Durock cement board attached to steel or wood framing. The weather-resistive barrier described in Section 2.2.6 is applied over the substrates. The insulation board is placed over the weather-resistive barrier and substrate, and mechanically fastened as shown in Figure 4. The wood-based sheathings are attached to wood framing in accordance with Chapter 23 of the UBC, and are attached to steel framing with corrosion-resistant, No. 8 by 1-inch (25.4 mm) self-drilling screws, with 0.292-inch-diameter (7.4 mm) heads, spaced at 6 and 12 inches (152 and 305 mm) at panel edges and intermediate framing members, respectively. The gypsum sheathing, Dens-Glass Gold and Durock are attached to framing with No. 6 by 1-inch-long, self-drilling, corrosion-resistant screws spaced at 7 inches (178 mm) on center at panel edges and in the field of the panel. The EPS is fastened in accordance with the fastening pattern shown in Figure 4. The balance of the application is as described in Section 2.3.1.2. The allowable wind load is shown in Table 1. Studs must be designed to resist the imposed loads. See Figure 2 for typical installation details.

2.3.3 EIFS Mechanically Fastened to Concrete/Masonry Substrates Without Drainage Provisions: The insulation board is applied horizontally to the substrates in a running-bond pattern and is temporarily attached with two fasteners, placed through washers. Fasteners are corrosion-resistant, minimum $\frac{1}{4}$ -inch-diameter (6.4 mm) masonry screws with a minimum head diameter of $\frac{3}{8}$ inch (9.5 mm), such as Tap-Kwick screws manufactured by Parker-Kalon Division, A Black & Decker Company (ER-4876). Washers are used with the screws. All washers must be approved by Omega Products Corporation. Two washers that can be utilized are the plastic Quick-cap washer, supplied by Celotex, or the Wind Devil plate, supplied by Wind Lock Corporation, each a minimum of $1\frac{3}{4}$ inches (44.5 mm) in diameter. Fasteners are installed at 12 inches (305 mm) on center vertically, in rows 16 inches (406 mm) on center. The balance of the application is as described in Section 2.3.1.

Adequacy of fasteners in the substrate is determined by a proof load test program involving fastener withdrawal from the substrate in question. Testing must be conducted by an independent laboratory. Based on a 12-inch-by-16-inch (305 mm by 406 mm) spacing and an allowable wind pressure of 32 psf (1532 Pa), proof load tests must indicate a minimum 256-pound (1139 N) ultimate load for each fastener.

A minimum of five tests per program are required, with results varying from the average by no more than 15 percent.

If a minimum of 10 tests per program are provided, variation from the average may be disregarded. For masonry substrates, 40 percent of the tests must be run in masonry joints.

The applicator must provide the building official with a certificate of compliance concerning test results relating to load requirements in this report. The base coat, reinforcing mesh and finish coat are then applied in a manner similar to the application described in Section 2.3.1.

2.4 Noncombustible Construction:

2.4.1 General: For application to exterior walls required to be of noncombustible construction under the UBC, installation shall be in accordance with either Section 2.4.2 or Section 2.4.3.

2.4.2 System 1: The wall framing shall be minimum 3⁵/₈-inch-deep (92 mm), minimum No. 18 gage [minimum 0.0486 inch (1.2 mm) base-metal thickness] steel studs at a maximum of 24 inches (610 mm) on center with No. 20 gage [minimum 0.033 inch (0.84 mm)] tracks. Wall openings are framed with steel having a base metal thickness of 0.0486-inch (1.2 mm). One layer of 5¹/₈-inch-thick (15.9 mm), Type X gypsum wallboard or 5¹/₈-inch-thick (15.9 mm), Dens-Glass Gold Fireguard Type X board is applied horizontally to interior stud flanges with vertical joints staggered. The wallboard or Dens-Glass Gold is fastened to studs, using No. 6, Type S-12, buglehead screws, 1³/₈ inches (35 mm) long with fastener spacings as specified in the applicable code for installation of gypsum wallboard. Water-resistant core, Type X gypsum sheathing, 5¹/₈ inch (15.9 mm) thick, or 5¹/₈-inch-thick (15.9 mm) Dens-Glass Gold Fireguard Type X board, is similarly installed to exterior stud flanges. The sheathing on the exterior side is fastened with No. 6, Type S-12, buglehead screws, 1³/₈ inches (35 mm) long, spaced 6 inches (152 mm) on center at edges and 12 inches (305 mm) on center in the field. Maximum 4-inch-thick (102 mm), 1 pcf density (16 kg/m³), EPS board insulation, described in Section 2.2.2.1, is adhered as described in Section 2.3.1. USG Thermafiber safing insulation, 4 pcf (64 kg/m³), having a minimum thickness of 4 inches (102 mm) and recognized in evaluation report ER-2331, is used to firestop the stud cavities at floor lines. The balance of construction is as described for the adhesively attached system in Section 2.3.1.

2.4.3 System 2: The wall framing shall be minimum 3⁵/₈-inch-deep (92 mm), minimum No. 20 gage [minimum 0.0359-inch (0.912 mm) base-metal thickness] steel studs spaced at a maximum of 16 inches on center. Wall openings shall be framed with steel framing with a minimum base metal thickness of 0.0359 inch (0.912 mm). One layer of 1¹/₂-inch-thick (12.7 mm) gypsum wallboard shall be applied vertically to interior flanges of studs and attached to the wall framing with 1¹/₄-inch-long (31.7 mm), No. 6, Type S buglehead screws spaced at a maximum of 8 inches on center at wallboard joints and 12 inches on center at intermediate locations. One layer of 1¹/₂-inch-thick (12.7 mm) gypsum sheathing shall be applied horizontally to exterior flanges of studs and attached to the wall framing with 1¹/₄-inch-long (31.7 mm), No. 6, Type S buglehead screws spaced at a maximum of 8 inches on center. The wallboard joints must be staggered from the gypsum sheathing joints. USG Thermafiber 4 pcf (64 kg/m³) safing insulation having a minimum thickness of 4 inches (102 mm), and recognized in evaluation report ER-2331, shall be used to firestop the stud cavities at floor lines. Maximum 4-inch thick (102 mm), 1 pcf density (16 kg/m³) EPS insulation board, described in Section 2.2.2.1, is adhered to the gypsum sheathing with Styro-Glue Dry Bond in accordance with Section 2.3.1.2. The reinforcing mesh is embedded into a base coat of Styro-Glue Dry Bond

applied as described in Section 2.3.1.2. The finish coat is applied to the base coat as described in Section 2.3.1.2.

2.5 Identification:

Containers of adhesives, base coats and finish coats of the Omega Akroflex System bear a label noting the name of the product; the Omega Products International, Inc., name and address; the evaluation report number (ER-4898); the production date; the batch number; quantity of material; storage, mixing and curing instructions; and expiration date.

The foam plastic insulation boards must be labeled in accordance with their respective ICC-ES evaluation reports. Additionally, the board density must be noted. When the system is applied to walls required to be noncombustible construction, the name "Akroflex" and the evaluation report number (ER-4898) must also be along one edge of each board, and on both faces of one board in each package.

Cartons of JPS Glass reinforcing fabric are identified with the manufacturer's name, product name and model number of the fabric.

Cartons of Quick-cap washers and Wind Devil, Wind-Devil 2 and Plasti-Grip plates and screws are identified with the manufacturer's name, product name, quantity and installation instructions.

Containers of the weep screed starter track are identified with the manufacturer's name and product name.

3.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Interim Criteria for Exterior Insulation and Finish Systems (AC24), dated June 2003, and a quality control manual.

4.0 FINDINGS

That the Omega Akroflex Exterior Insulation and Finish Systems described in this report comply with the 1997 Uniform Building Code™ (UBC), subject to the following conditions:

- 4.1 Construction is as set forth in this report and the manufacturer's instructions.**
- 4.2 Foam plastic insulation board is separated from the building interior by a thermal barrier complying with UBC Section 2602, such as minimum 1¹/₂-inch (12.7 mm) gypsum wallboard mechanically attached in accordance with the UBC, or a minimum 1-inch (25 mm) thickness of concrete or masonry.**
- 4.3 Installation is by applicators approved by Omega Products International, Inc. Installation cards, such as those shown in Figures 5 and 6, must be completed by the applicator and presented to the building official at the completion of each project.**
- 4.4 Insulation boards are labeled in accordance with this report.**
- 4.5 The Akroflex system may be installed over the surface of exterior, fire-resistance-rated, combustible wall assemblies as described in UBC Table 7-B without changing the assigned hourly rating of the assembly.**
- 4.6 The system may be installed on exterior walls required to be of noncombustible, non-fire-resistive, construction under the UBC, provided installation is in accordance with Section 2.4 of this report.**

4.7 For framed construction of Type V, Group R, Division 1 and 3, Occupancies under the UBC, installation must be in accordance with Sections 2.1.3 and 2.3.2.

4.9 Allowable wind loads are in Sections 2.3.1, 2.3.2 and 2.3.3, and Table 1 of this report.

This report is subject to re-examination in two years.

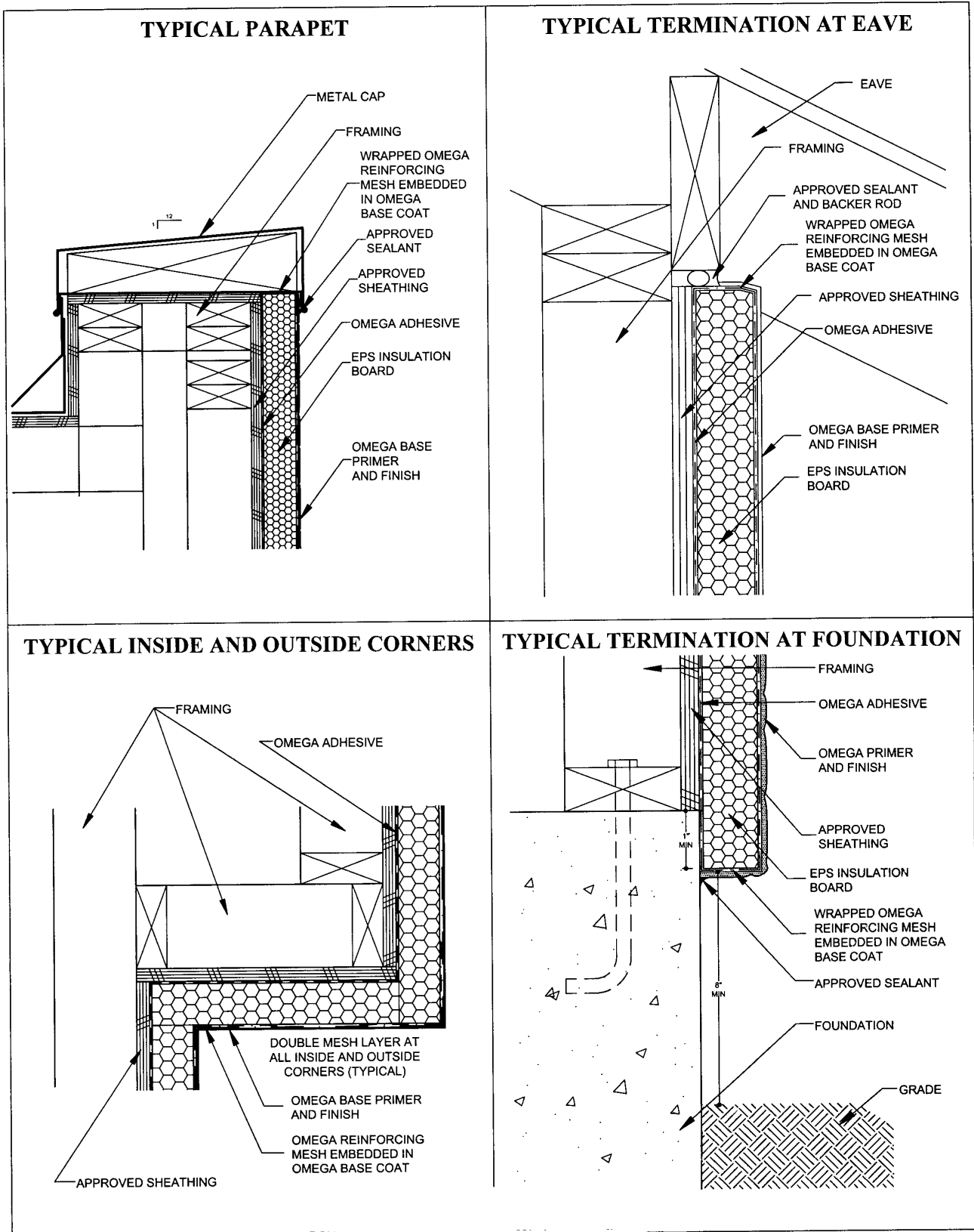


FIGURE 1—TYPICAL INSTALLATION DETAILS OF ADHESIVELY ATTACHED SYSTEM

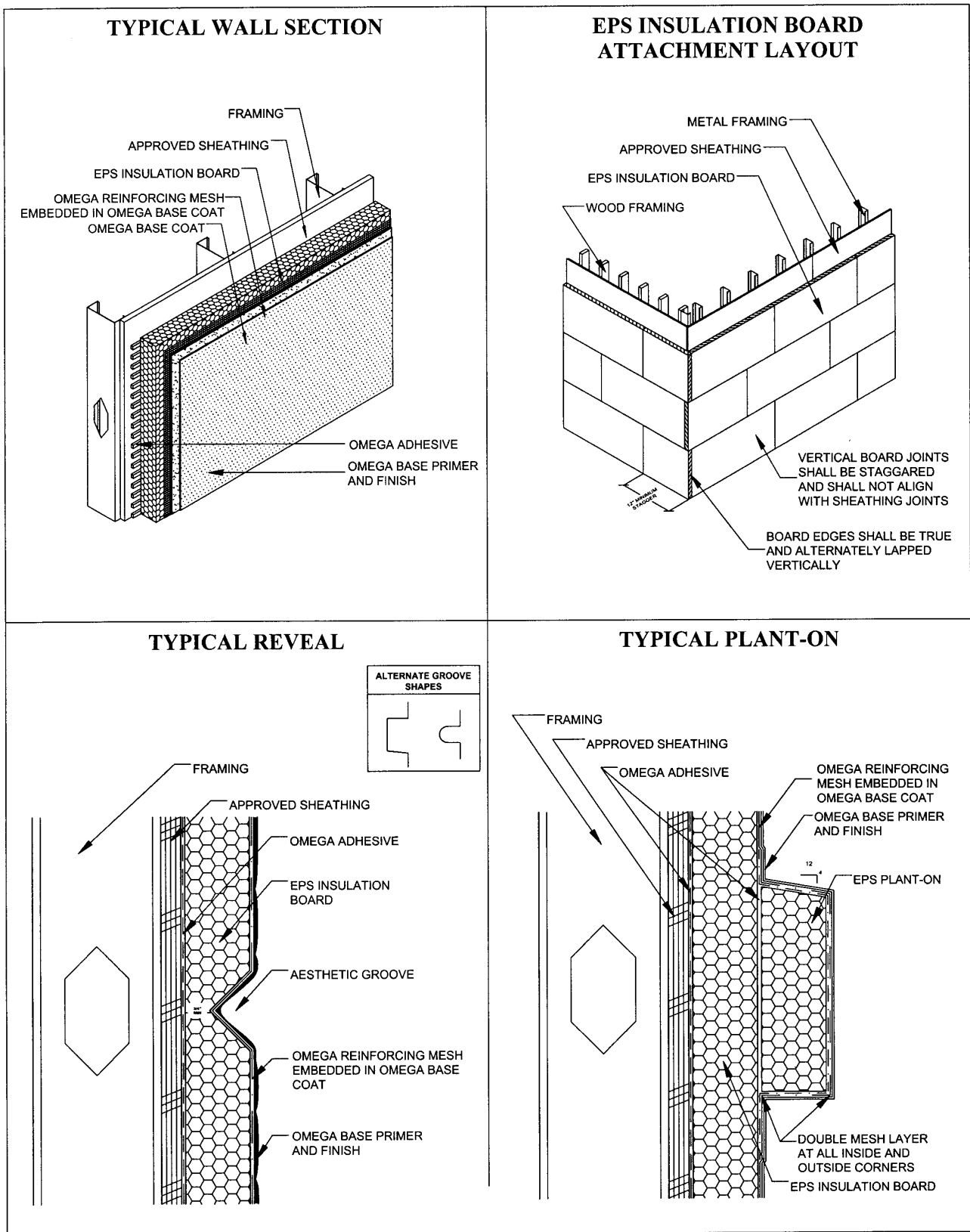
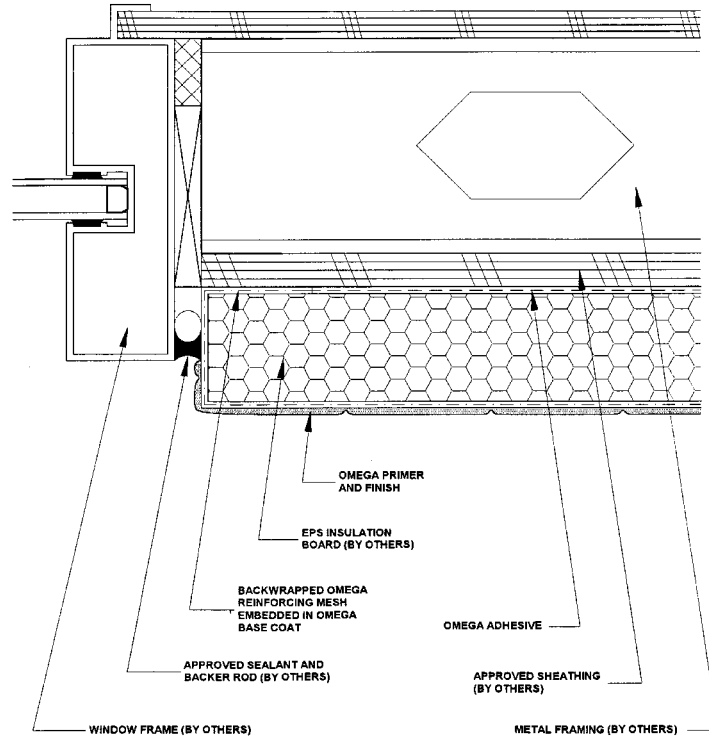


FIGURE 1—TYPICAL INSTALLATION DETAILS OF ADHESIVELY ATTACHED SYSTEM—(Continued)

TYPICAL WINDOW JAMB



TYPICAL DOOR HEAD OR JAMB

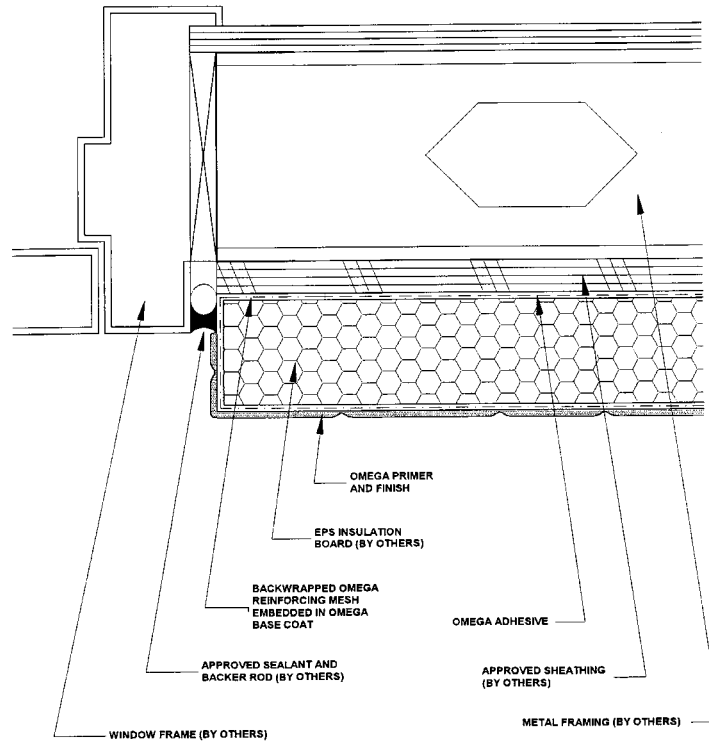


FIGURE 1—TYPICAL INSTALLATION DETAILS OF ADHESIVELY ATTACHED SYSTEM—(Continued)

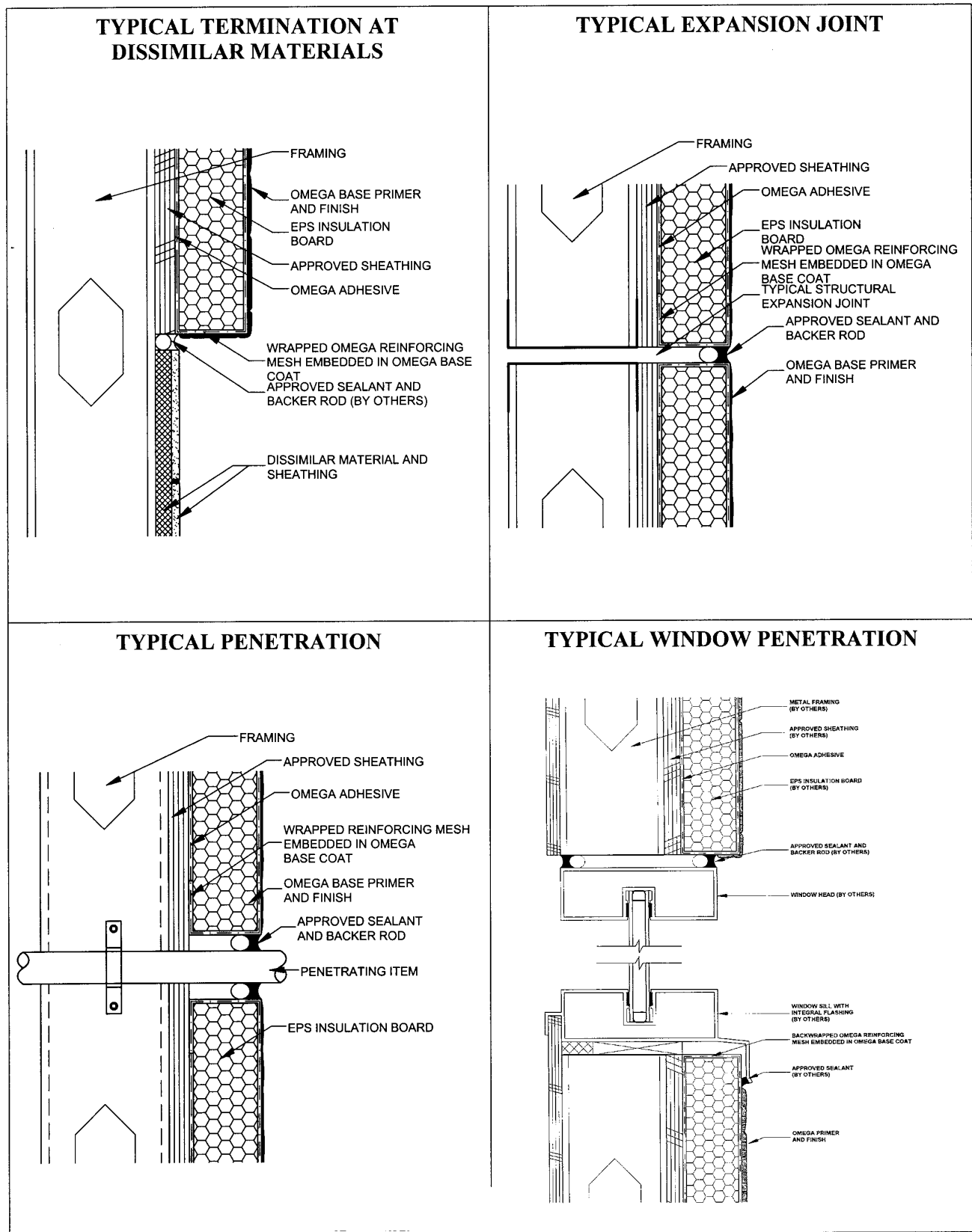
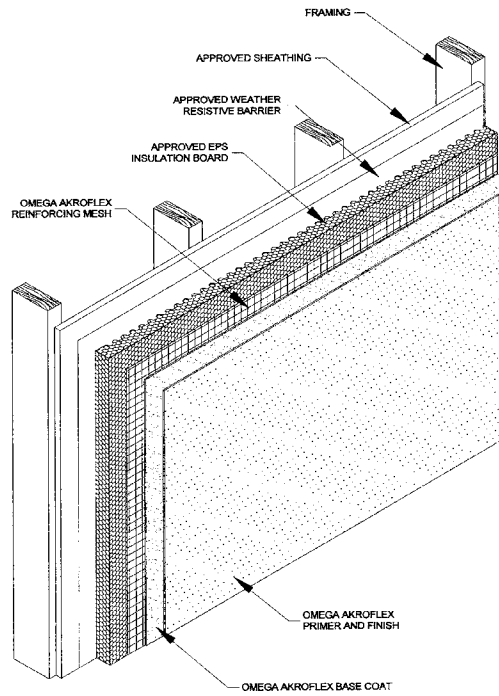
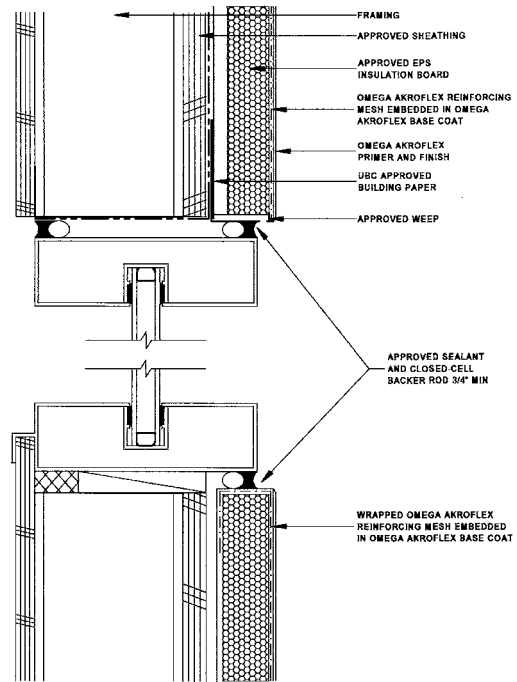


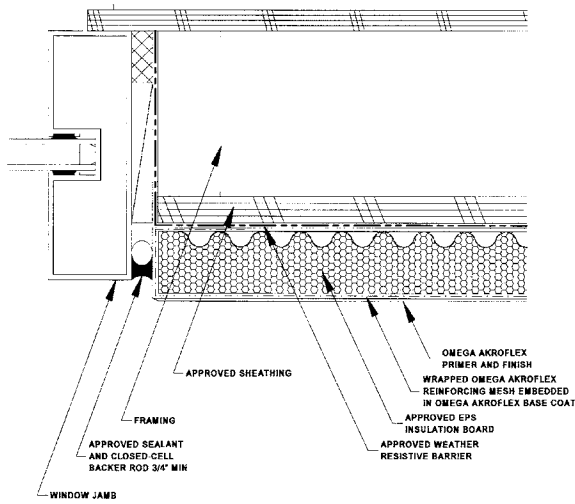
FIGURE 1—TYPICAL INSTALLATION DETAILS OF ADHESIVELY ATTACHED SYSTEM—(Continued)



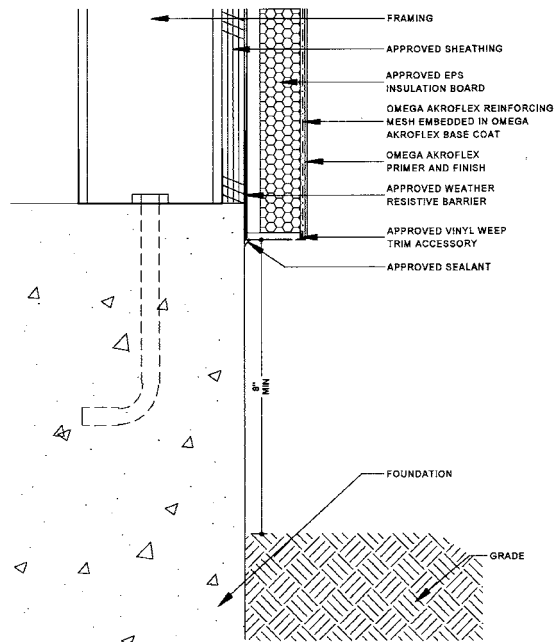
TYPICAL APPLICATION



TYPICAL WINDOW HEAD AND SILL

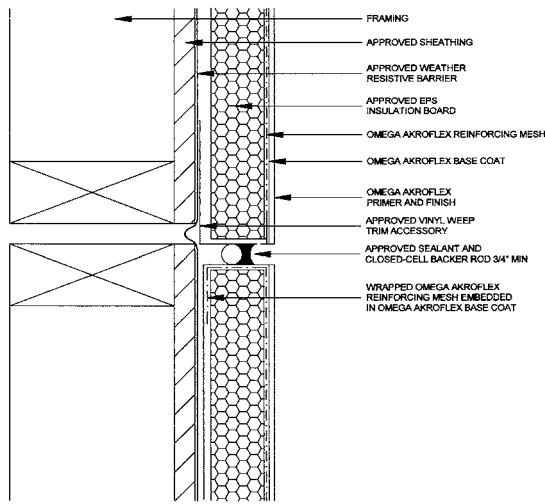


TYPICAL WINDOW JAMB

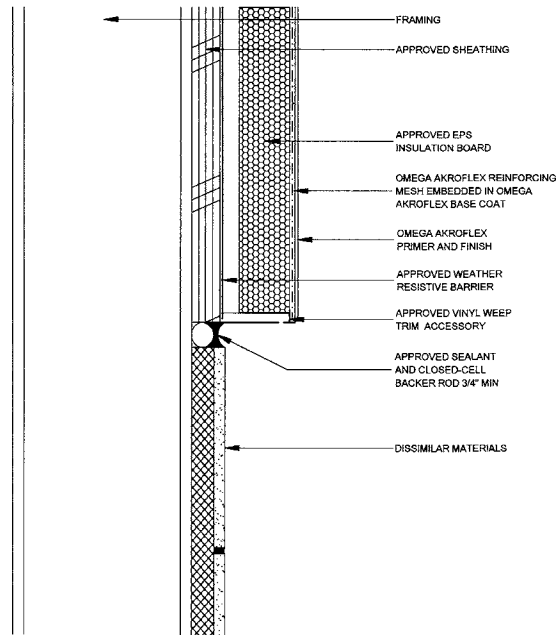


TYPICAL TERMINATION

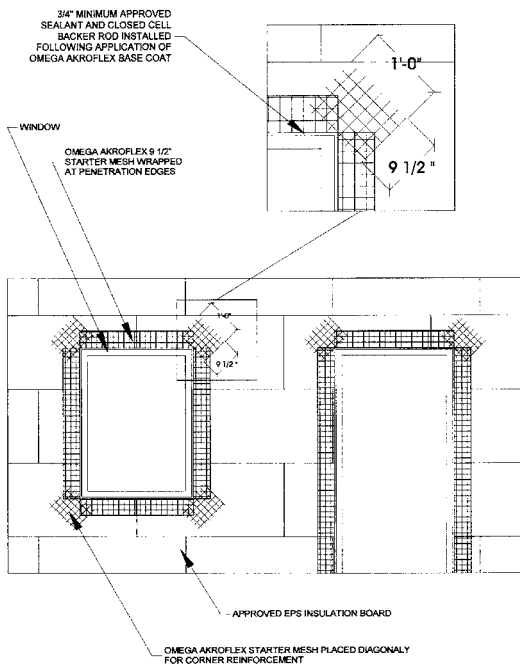
FIGURE 2—TYPICAL INSTALLATION DETAILS OF EIFS WITH DRAINAGE



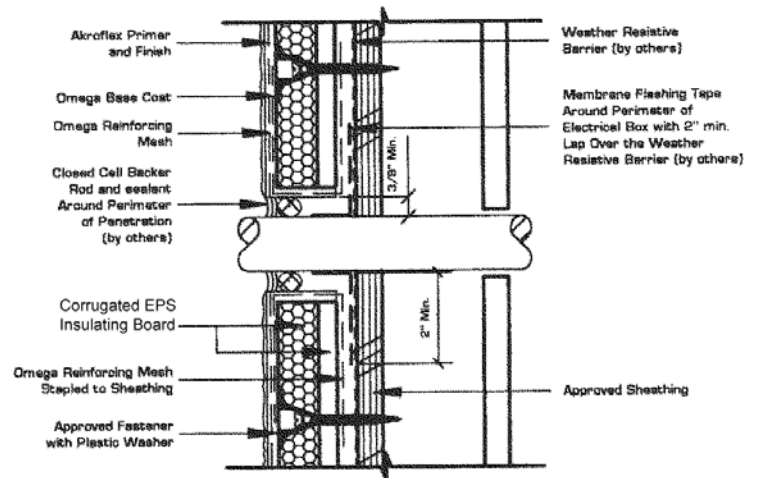
TYPICAL EXPANSION JOINT



TYPICAL CONTROL JOINT AT DISSIMILAR MATERIALS



TYPICAL MESH LAYOUT



THROUGH PENETRATION

FIGURE 2—TYPICAL INSTALLATION DETAILS OF EIFS WITH DRAINAGE—(Continued)

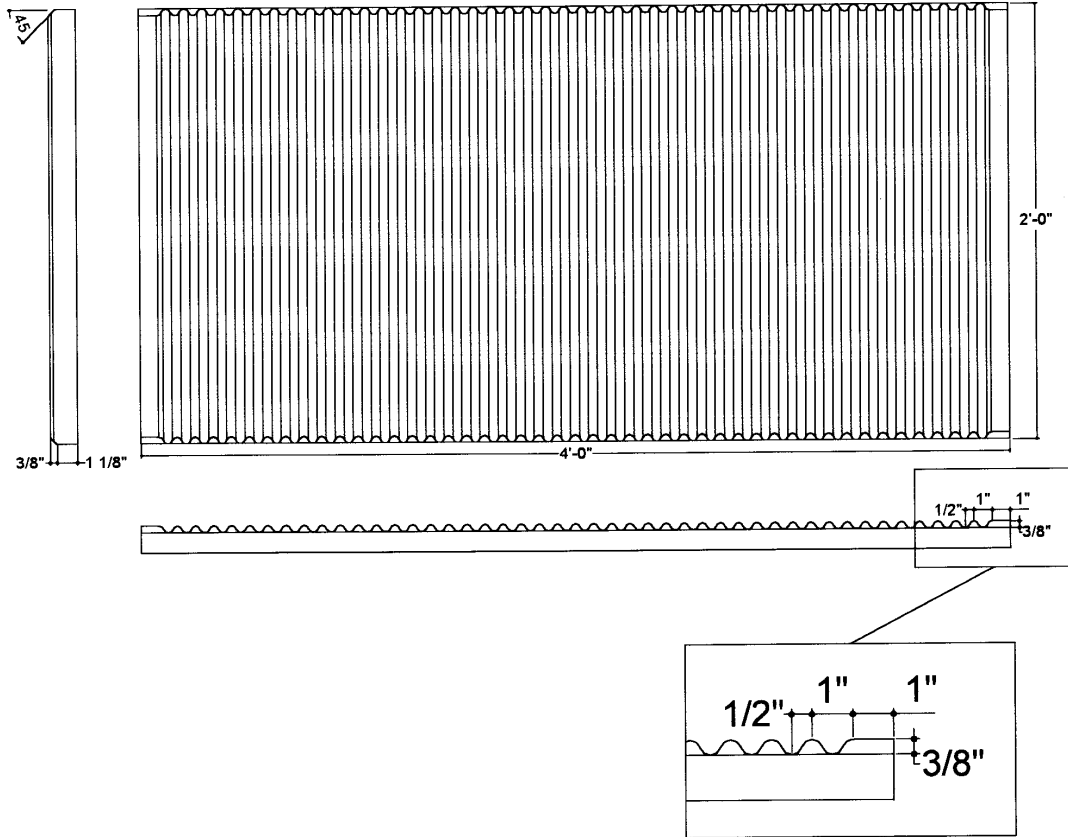


FIGURE 3—CORRUGATED EPS

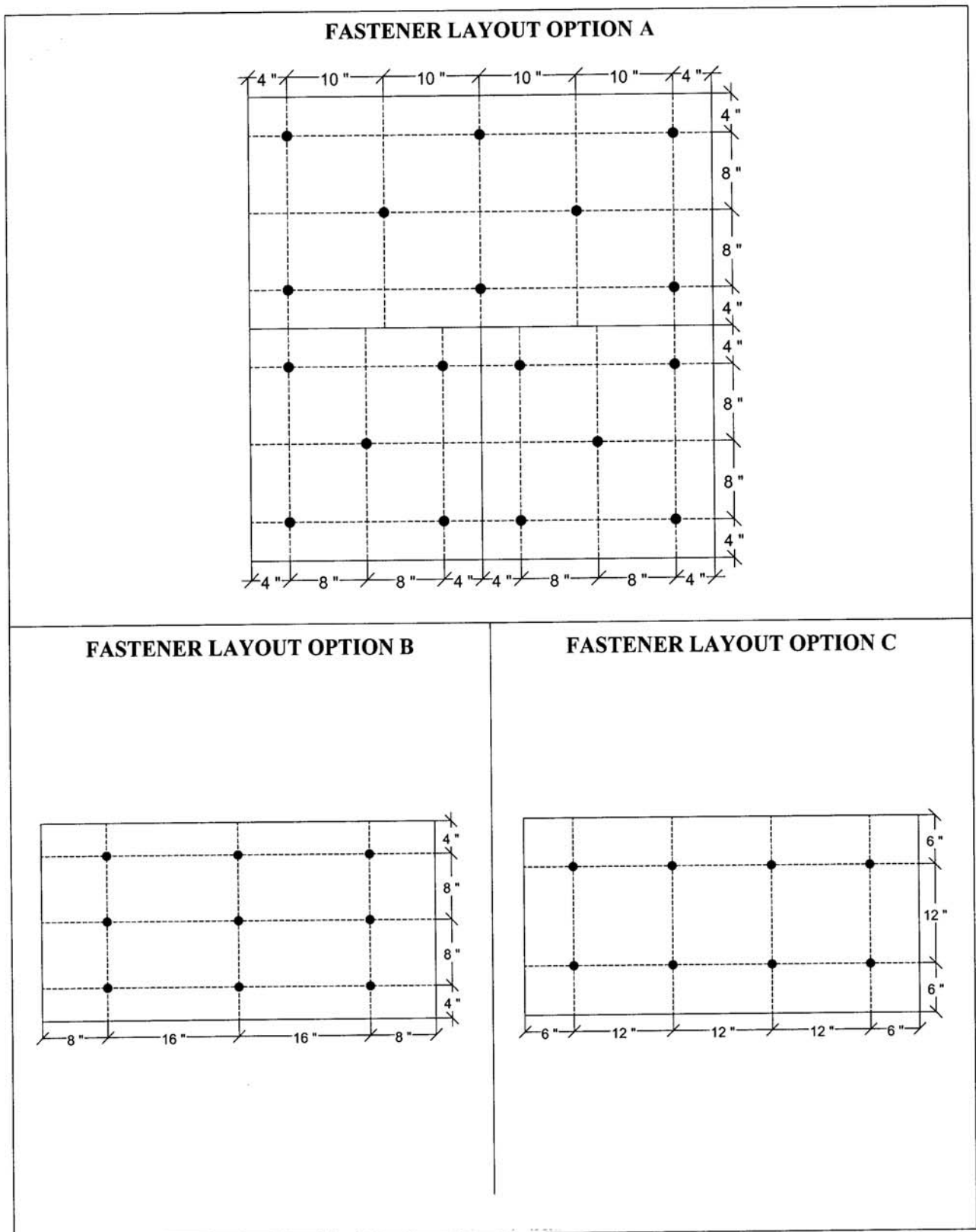


FIGURE 4—INSULATION BOARD FASTENER PATTERNS

(EIFS CONTRACTOR NAME)

Completion Date: _____

THE EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) INSTALLED ON THE STRUCTURE LOCATED AT THE ADDRESS INDICATED BELOW:

_____ CONFORMS

TO OMEGA PRODUCTS INTERNATIONAL, INC., RECOMMENDED INSTALLATION PRACTICES AND SECTION (S) _____ OF ICC-ES, INC., EVALUATION REPORT ER-4898.

Address of Structure:

Product Component Names:

Adhesive(s) _____
Fasteners (mech) _____
Base Coat _____
Reinforcing Fabric _____
Finish Coat (s) _____

INSTALLATION

CONFORMS

- A. Substrate Type and Tolerance _____
- B. Weather Resistive Barrier (Type V Construction Only) _____
- C. EIFS
 - 1. Adhesive and/or Fasteners _____
 - 2. Insulation _____
 - 3. Reinforcing Fabric _____
 - 4. Base Coat _____
 - 5. Finish _____

D. The information entered above is offered in testimony that the EIFS installation conforms with the EIFS manufacturer's installation methods and procedures, and the EIFS manufacturer's ES report.

NOTE: An installation card shall be received from the Sealant Installer indicating that the sealant installation conforms with the EIFS evaluation report and sealant manufacturer's installation methods and procedures must accompany this declaration.

EIFS Contractor Company Name and Address:

Signature of Responsible Officer: _____

Type Name and Title of Officer: _____

Telephone Number: (_____) _____

cc: Original: Building Department (Must be submitted with sealant
Copy: Omega Products International, Inc. installer declaration.)

FIGURE 5

(SEALANT INSTALLER NAME)

Completion Date: _____

THE SEALANT INSTALLED IN CONJUNCTION WITH AN EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) INSTALLED ON THE STRUCTURE LOCATED AT THE ADDRESS INDICATED BELOW:

_____ CONFORMS

TO (EIFS MANUFACTURER NAME) AND (SEALANT MANUFACTURER'S NAME) RECOMMENDED INSTALLATION PRACTICES AND SECTION(S) _____ OF ICC-ES, INC., EVALUATION REPORT ER-_____ .

Address of Structure:

Product Component Names:

Primer(s) _____
Sealers _____
Bond Breakers _____
Sealant Materials _____

INSTALLATION

CONFORMS

- A. Designer's requirements, details and instructions _____
- B. Sealant manufacturer's details and requirements _____
- C. Exterior insulation manufacturer's requirements _____

D. The information entered above is offered in testimony that the Sealant installation conforms with the sealant manufacturer's installation methods and procedures, and the EIFS manufacturer's evaluation report.

Sealant Installer Company Name and Address:

Signature of Responsible Officer: _____

Type Name and Title of Officer: _____

Telephone Number: (_____) _____

cc: Original: Building Department (Must be submitted with EIFS contractor declaration.)
 Copies: EIFS Manufacturer
 EIFS Contractor
 Sealant Manufacturer

FIGURE 6